IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re the application of:

Stephen NAJDA

International Appln. No.: PCT/GB2003/004705

International Filing Date:

30 October 2003

For:

QUANTUM WELL INTERMIXING IN

SEMICONDUCTOR PHOTONIC DEVICES

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

"First Class Certificate of Mailing			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on			
Date			
Laura Nettleton			

POWER OF ATTORNEY AND CERTIFICATE UNDER 37 C.F.R. §3.73(b)

I, John Marsh, am Chief Technical Officer of Intense Limited, a company duly organized and existing under the laws of the United Kingdom and having its principal place of business at 4 Stanley Boulevard, Hamilton International Technology Park, High Blantyre, Glasgow G72 0BN, United Kingdom ("Assignee"). The Assignee is the owner of the entire right, title and interest in the above-identified patent application ("the Patent Application") by virtue of an assignment from the inventor of this Patent Application. As evidence of this assignment, the Assignee points to the Assignment from the inventor to Assignee enclosed herewith, in the condition it is being submitted for recordation.

The undersigned is empowered to sign this document on behalf of the Assignee and has full power to grant and revoke powers of attorney.

Attorney Docket No. 305832-00112

Assignee hereby appoints Jefferson Perkins, Reg. No. 31,407, of the firm of Daspin & Aument, LLP, as its attorney to prosecute this Patent Application and to transact all business in the U.S. Patent and Trademark Office connected with the Patent Application and with any resulting patent, and to represent Assignee before all competent International Authorities.

Please direct all correspondence to:

This appointment includes a full power of substitution and revocation.

Daspin & Aument, LLP 210 W. 22nd Street, Suite 102 Oak Brook, Illinois 60523

Please direct all telephone calls to:

Jefferson Perkins (630) 990-4503

CUSTOMER NUMBER: 43138

Attorney Docket No. 305832-00112

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

INTENSE LIMITED

Signature:

John Marsh

Title:

Chief Technical Officer

Date:

1 June 2005

ASSIGNMENT

WHEREAS, I, the undersigned sole inventor, of residence as listed, having invented certain new and useful improvements as below entitled, for which I have applied for a patent, said application having been filed under the Patent Cooperation Treaty on 30 October 2003 under Application Number PCT/GB2003/004705 and having designated the United States; and

WHEREAS, INTENSE LIMITED (hereinafter referred to as "Assignee"), a corporation of the United Kingdom with an address of 4 Stanley Boulevard, Hamilton International Technology Park, High Blantyre, Glasgow G72 0BN, United Kingdom, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, and continuations-in-part thereof; and I authorize and request the Director of the United States Patent and Trademark Office to issue all patents for said invention insofar as my interest is concerned, to Assignee.

I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part and reissue applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:

QUANTUM WELL INTERMIXING IN

SEMICONDUCTOR PHOTONIC

DEVICES

Attorney Docket No.:

305832-00112

PCT Application Number and Filing Date:

Residence (City, Province or State, Country):

PCT/GB2003/004705, filed 30 October

2003

Signature of Inventor:

Stephen NAJDA

Glasgow, Great Britain

Date of Signature:

Inventor's Name:



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

500036254A

PTAS

JEFFERSON PERKINS 210 WEST 22ND STREET SUITE 102 OAK BROOK, IL 60523

JUNE 22, 2005

500036254A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES DIVISION, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/17/2005

REEL/FRAME: 016167/0193

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NAJDA, STEPHEN

DOC DATE: 06/01/2005

ASSIGNEE:

INTENSE LIMITED

4 STANLEY BOULEVARD, HAMILTON INTERNATIONAL TECHNOLOGY PARK,

HIGH BLANTYRE

GLASGOW, UNITED KINGDOM G72 OBN

SERIAL NUMBER: 10533330

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE:

Kightrax

D/22/00 0:00 PAGE 000/004 TAX DELVET

016167/0193 PAGE 2

ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 06/17/2005 500036254

				_
CI	1014	1001		TYPE:
1			L JIV	1166.

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Stephen NAJDA	06/01/2005

RECEIVING PARTY DATA

Name:	Intense Limited		
Street Address:	4 Stanley Boulevard, Hamilton International Technology Park, High Blantyre		
City:	Glasgow		
State/Country:	UNITED KINGDOM		
Postal Code:	G72 0BN		

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	10533330		

CORRESPONDENCE DATA

Fax Number:

(630)990-4511

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone:

630 990 4503

Email:

jperkins@daspinaument.com

Correspondent Name:

Jefferson Perkins

Address Line 1:

210 West 22nd Street

Address Line 2:

Suite 102

Address Line 4:

Oak Brook, ILLINOIS 60523

NAME OF SUBMITTER:

Jefferson Perkins, Reg. No. 31,407

Total Attachments: 2

source=30583200112assgt#page1.tif source=30583200112assgt#page2.tlf

Facsimile Transmission

This company uses RightFAX® fax server software from RightFAX, Inc.

From:

Name:

USPTO ASSIGNMENT DIVISION

Fax Number:

Voice Phone:

703-308-9723

To:

Name:

SUBMITTER

Company: Fax Number:

Faxed to Submitter's Fax Number

16309904511

Voice Phone:

Fax Notes:

Pg# Description

1 Cover Page

2 185.TXT

4 Document 1, Batch 484291

PTAS FAX PROCESSING

Date and time of transmission: Wednesday, June 22, 2005 8:49:54 AM

Number of pages including this cover sheet: 04